Setting up

```
PS C:\Users\Woysh\Documents\AY 2020-2021\EEE 197\Week 10\ME8_Containerization_and_Docker\3-building_images> docker pull ubuntu:16.04
16.04: Pulling from library/ubuntu
Digest: sha256:6aab78d1825b4c15c159fecc62b8eef4fdf0c693a15aace3a605ad44e5e2df0c
Status: Image is up to date for ubuntu:16.04
docker.io/library/ubuntu:16.04
PS C:\Users\Woysh\Documents\AY 2020-2021\EEE 197\Week 10\ME8_Containerization_and_Docker\3-building_images> __
```

Docker rmi to the previous exercise

```
PS C:\Users\Woysh\Documents\AY 2020-2021\EEE 197\Week 10\ME8_Containerization_and_Docker\3-building_images> docker rmi c11
Untagged: delner/ping:latest
Deleted: sha256:c11725ad5b011056f54bae034363f21e33daafd7ebfc2a0f4a208e747a97eae9
PS C:\Users\Woysh\Documents\AY 2020-2021\EEE 197\Week 10\ME8_Containerization_and_Docker\3-building_images> docker rmi ffe
Deleted: sha256:ffe66eac9de5703529cab87bf3db3f4f37991effebe302332085d1ab40af1b51
PS C:\Users\Woysh\Documents\AY 2020-2021\EEE 197\Week 10\ME8_Containerization_and_Docker\3-building_images>
```

1) Building current dockerfile

```
PS C:\Users\Woysh\Documents\AY 2020-2021\EEE 197\Week 10\ME8_Containerization_and_Docker\3-building_images> docker build -t 'ryan/ping' .

[+] Building 0.1s (7/7) FINISHED

-> [internal] load build definition from Dockenfile
-> -> transforring dockenfile: idin
-> (internal] load docker|pore
-> -> transforring context: 20
-> [internal] load metadata for docker.io/library/ubuntu:16.04
-> [1/2] FROM docker.io/library/ubuntu:16.04
-> [2/3] RAW ant-set update
-> CACHED [2/3] RUM ant-set update
-> CACHED [3/3] RUM apt-set update
-> Seporting to image
-> -> triing image shalfo:ffe60eacode5703529cab87bf3db3f4f37091effebe302337085dlab40af1b51
-> -> maming to docker.io/ryan/ping

Use 'docker scan' to run Snyk tests against images to find vulnerabilities and learn how to fix them
PS C:\Users\Woysh\Documents\AY 2020-2021\EEE 197\Week 10\ME8_Containerization_and_Docker\3-building_images>
```

Docker images

```
<sup>25</sup> C:\Users\Woysh\Documents\AY 2020-2021\EEE 197\Week 10\ME8_Containerization_and_Docker\3-building_images> <mark>docker</mark> images
REPOSITORY
             TAG
                       IMAGE ID
                                       CREATED
                                                      SIZE
             latest
                        ffe66eac9de5
                                       5 hours ago
                                                      170MB
ryan/ping
buntu
             16.04
                       065cf14a189c 3 days ago
                                                    135MB
PS C:\Users\Woysh\Documents\AY 2020-2021\EEE 197\Week 10\ME8_Containerization_and_Docker\3-building_images> _
```

2) Optimized Docker file

```
PS C:\Users\Woysh\Documents\AY 2020-2021\EEE 197\Week 10\ME8_Containerization_and_Docker\3-building_images> docker build -t 'ryan/ping' .

[+] Building 0.1s (6/6) FINISHED

| Internal | Journal |
```

Docker images of optimized Dockerfile

```
C:\Users
                       ments\AY 2020-2021\EEE 197\Week 10\ME8_Containerization_and_Docker\3-building_images> <mark>docke</mark>r images
                        IMAGE ID
                                                       SIZE
REPOSITORY
             TAG
                                       CREATED
             latest
                        c11725ad5b01
                                        5 hours ago
                                                       135MB
ryan/ping
                                        5 hours ago
                        ffe66eac9de5
none>
             <none>
                                                       170MB
buntu
             16.04
                        065cf14a189c
                                                       135MB
                                        3 days ago
```

Dockerfile rewritten

```
[+] Building 92.3s (6/6) FINISHED

| Continued of the description from Uncharofile
| Continued of the Uncharofile
| C
```

Docker images of Docker rewritten

```
PS C:\Users\Woysh\Documents\AY 2020-2021\EEE 197\Week 10\ME8_Containerization_and_Docker\3-building_images> docker images
REPOSITORY TAG IMAGE ID CREATED SIZE
ryan/ping latest 87b7d98fae75 About a minute ago 139MB
<none> <none> <11725ad5b01 5 hours ago 135MB
<none> <none> ffe66eac9de5 6 hours ago 170MB
ubuntu 16.04 065cf14a189c 3 days ago 135MB
```

Final Dockerfile build

docker run -it ryan/ping

```
PS C:\Users\Woysh\Documents\AY 2020-2021\EEE 197\Week 10\ME8_Containerization_and_Docker\3-building_images> docker run -it ryan/ping PING google.com (172.217.31.238) 56(84) bytes of data.

64 bytes from 172.217.31.238: icmp_seq=1 ttl=37 time=57.5 ms

64 bytes from 172.217.31.238: icmp_seq=2 ttl=37 time=60.8 ms

64 bytes from 172.217.31.238: icmp_seq=3 ttl=37 time=56.3 ms

64 bytes from 172.217.31.238: icmp_seq=4 ttl=37 time=56.3 ms

64 bytes from 172.217.31.238: icmp_seq=5 ttl=37 time=56.3 ms

62 bytes from 172.217.31.238: icmp_seq=5 ttl=37 time=56.3 ms

63 bytes from 172.217.31.238: icmp_seq=5 ttl=37 time=56.3 ms

64 bytes from 172.217.31.238: icmp_seq=5 ttl=37 time=56.3 ms

65 bytes from 172.217.31.238: icmp_seq=5 ttl=37 time=56.3 ms

66 bytes from 172.217.31.238: icmp_seq=5 ttl=37 time=56.3 ms

67 bytes from 172.217.31.238: icmp_seq=5 ttl=37 time=56.3 ms

68 bytes from 172.217.31.238: icmp_seq=5 ttl=37 time=56.3 ms

69 bytes from 172.217.31.238: icmp_seq=5 ttl=37 time=56.3 ms

60 bytes from 172.217.31.238: icmp_seq=5 ttl=37 time=56.3 ms

60 bytes from 172.217.31.238: icmp_seq=5 ttl=37 time=56.3 ms

61 bytes from 172.217.31.238: icmp_seq=5 ttl=37 time=56.3 ms

62 bytes from 172.217.31.238: icmp_seq=5 ttl=37 time=56.3 ms

63 bytes from 172.217.31.238: icmp_seq=5 ttl=37 time=56.3 ms

64 bytes from 172.217.31.238: icmp_seq=5 ttl=37 time=56.3 ms

64 bytes from 172.217.31.238: icmp_seq=5 ttl=37 time=56.3 ms

65 bytes from 172.217.31.238: icmp_seq=5 ttl=37 time=56.3 ms

66 bytes from 172.217.31.238: icmp_seq=5 ttl=37 time=56.3 ms

67 bytes from 172.217.31.238: icmp_seq=5 ttl=37 time=56.3 ms

68 bytes from 172.217.31.238: icmp_seq=5 ttl=37 time=56.3 ms

69 bytes from 172.217.31.238: icmp_seq=5 ttl=37 time=56.3 ms

60 bytes from 172.217.31.238: icmp_seq=5 ttl=37 time=56.3 ms

60 bytes from 172.217.31.238: icmp_seq=5 ttl=37 time=56.3 ms

61 bytes from 172.217.31.238: icmp_seq=5 ttl=37 time=56.3 ms

60 bytes from 172.217.31.238: icmp_seq=5 ttl=37 time=56.3 ms

61 bytes from 172.217.31.238: icmp_seq=5 ttl=37 time=56.3 m
```